

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 003		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO. PR-R3-12-00179	
5. PROJECT NO. (if applicable)		6. ISSUED BY Region 3 US Environmental Protection Agency 1650 Arch Street Philadelphia PA 19103-2029		7. ADMINISTERED BY (if other than Item 6) Region 3 US Environmental Protection Agency 1650 Arch Street Philadelphia PA 19103-2029	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) KEMRON ENVIRONMENTAL SERVICES, INC 1359 A ELLSWORTH INDUSTRIAL Atlanta GA 30318-4149		(x) 9A. AMENDMENT OF SOLICITATION NO.		9B. DATED (SEE ITEM 11)	
CODE 082785585 FACILITY CODE		x 10A. MODIFICATION OF CONTRACT/ORDER NO. EP-S3-07-03 0035		10B. DATED (SEE ITEM 13) 01/18/2012	

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.  
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning \_\_\_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (if required) Net Increase:  
12-T-3AS0E-303DC6-2505-A3TARV00-C001-123ASA1013-001

**Ex. 4 - CBI**

**13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	D. OTHER (Specify type of modification and authority) CLAUSE H.36, TASK ORDERS

**E. IMPORTANT:** Contractor ☒ is not. ☐ is required to sign this document and return \_\_\_\_\_ 0 copies to the issuing office.

**14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)**

Dimock Residential Groundwater Site  
TOPO: R. FETZER Max Expire Date: 05/30/2012  
Period of Performance: 01/06/2012 to 05/30/2012



SDMS DocID 2140873

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) H. L. Murray	
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 2/10/12

NSN 7540-01-152-8070  
Previous edition unusable

STANDARD FORM 30 (REV. 10-83)  
Prescribed by GSA  
FAR (48 CFR) 53.243

EP-S3-07-03

Task Order No. 35, Modification No. 3

Ceiling: \$200,000.00

The purpose of this modification is to increase the task order ceiling amount for Task Order No. 0703-03-035 at the Dimock Residential Groundwater Site located in Dimock, Susquehanna County, Pennsylvania.

ACCORDINGLY:

1. Funds in the amount of Ex. 4 - CBI are hereby obligated to the Task Order. As a result, the Task Order Ceiling Amount is increased from Ex. 4 - CBI to Ex. 4 - CBI.
2. Except as expressly specified herein, all other terms and conditions remain unchanged and in full force and effect.
3. The effective date of this modification is the date signed by the Contracting Officer.

## Return Receipt

Your message: EP-S3-07-03, TO #35, Mod #3  
was received by: Robert Dombek/RTP/USEPA/US  
at: 02/10/2012 03:57:08 PM

## Relay Report

Your message: EP-S3-07-03, TO #35, Mod #3  
addressed to: jmount@kemron.com  
has the following delivery status: 250 OK, sent 4F357F92\_3727\_13584\_1 212FF59000A

What should you do?

This message is an informational Delivery Status Notification and does not require any further action.

- Your message was routed to a server which does not accept responsibility for generating Delivery Status Notifications upon successful delivery. You may assume that the message was successfully delivered if no failure message is received. Do not expect a delivery confirmation notice.

### Routing path

EPAHUB13/USEPA/US, R3MAIL1/R3/USEPA/US

To: jmount@kemron.com, Group DDC-Customer@EPA, Joanna Mcdonald/R3/USEPA/US@EPA, Richard Messimer/R3/USEPA/US, James Wright/R3/USEPA/US@EPA, Jacquelin Williams/R3/USEPA/US, Marcella Leroy/R3/USEPA/US@EPA, Deirdre

cc:

Date: 03:35:33 PM Today

Subject: EP-S3-07-03, TO #35, Mod #3

## Delivery Confirmation Report

Your message: EP-S3-07-03, TO #35, Mod #3  
was delivered  
to: Group DDC-Customer  
at: 02/10/2012 03:35:31 PM



**{In Archive} AUTOMATED REPLY: Re: EP-S3-07-03, TO #35, Mod #3**

**Group DDC-Customer to: Lorrie Murray**

**02/10/2012 03:35 PM**

**Please respond to DO NOT REPLY**

Archive: This message is being viewed in an archive.

This reply serves to inform you that RTP-FC Contract Payment Branch has received your email. It in no way provides confirmation that your document(s) has been processed. Valid documents are processed within three workdays. Please review the Weekly Status Report of Contract Activity which is sent Friday nights for the status of your document(s). If you have questions concerning your document(s), please email your inquiry to [Dowe.Vonda@epa.gov](mailto:Dowe.Vonda@epa.gov).

**\*\*\*This email box is for contract awards, task orders, mods, and contract closeout documents only. Please use [RTPReceiving@epa.gov](mailto:RTPReceiving@epa.gov) for simplified acquisition documents and [SSS-RTP SF@epa.gov](mailto:SSS-RTP SF@epa.gov) for site-specific attachments and cost recovery requests.\*\*\***



Re: EP-S3-07-03, TO #35, Mod #3  
John Mount to: Lorrie Murray

02/10/2012 03:40 PM

Received

thanks

John Mount

On Feb 10, 2012, at 3:36 PM, "Lorrie Murray" <Murray.Lorrie@epamail.epa.gov> wrote:

>  
> Subject contract document attached.  
>  
> Thanks,  
>  
> Lorrie Murray  
> Phone: 215-814-5304  
> Fax: 215-814-5211  
> E-Mail: murray.lorrie@epa.gov  
>  
>  
> (See attached file: C\_EPS30703\_35\_3\_R03.pdf)  
> <C\_EPS30703\_35\_3\_R03.pdf>

Know Safety, No Accidents

P Before printing, think about ENVIRONMENTAL responsibility

The information contained in this email may be confidential and/or legally privileged. It has been sent for the sole use of the intended recipient(s). If the reader of this message is not an intended recipient, you are hereby notified that any unauthorized review, use, disclosure, dissemination, distribution, or copying of this communication, or any of its contents, is strictly prohibited. If you have received this communication in error, please reply to the sender and destroy all copies of the message. To contact us directly, send to <mailto:postmaster@kemron.com>. Thank you.

MEMORANDUM TO THE FILE

February 10, 2012

SUBJECT: Additional Funding for Task Order No. 035 at the Dimock Residential Groundwater Site located in Dimock, Susquehanna County, Pennsylvania

The undersigned Contracting Officer was requested by the Program to increase the ceiling in the amount of Ex. 4 - CBI for the subject task order. A Procurement Request has been provided.

A removal site evaluation was initiated by the On Scene Coordinator (OSC) at the Dimock Residential Groundwater Site due to a number of home wells in the Dimock area containing hazardous substances. Inorganic hazardous substances have been found in the wells of four (4) homes. It is believed that the presence of these hazardous materials is a result of historic drilling activities which may have used materials containing hazardous substances. The ERRS contractor is providing water for storage tanks (water buffalo tanks) and drinking water to the residents with contaminated wells. A verbal approval to raise the site ceiling to Ex. 4 - CBI (ERRS ceiling of Ex. 4 - CBI) was provided by the Director of the Office of Preparedness and Response on February 9, 2012. The attached Special Bulletin A documents this verbal approval. In addition, the OSC will follow up with an Action Memo at a later date. This is an incremental funding action to continue the provision of the water to the residents. An updated Independent Government Cost Estimate has been provided to cover the increase.

In accordance with the request, Modification No. 3 is being issued this date to increase the task order ceiling amount from Ex. 4 - CBI to Ex. 4 - CBI

Approved by:

H. L. Murray  
Contracting Officer

2/10/12  
Date

Peer Review:

John Blaney  
Contracting Officer

2-10-12  
Date



February 10, 2012

Special Bulletin A - Increase in Dimock Residential Groundwater Site Ceiling

From : Richard M. Fetzer, OSC

To: Dennis P. Carney, Director

Office of Preparedness and Response

Background: On January 19, 2012 Region III, with Headquarters concurrence approved an action memorandum to take actions at the Dimock Residential Groundwater Site including the provision of bulk and bottled water to 4 homes. The action also included sampling at approximately 61 homes. In order to implement these actions the OSC has used ERRS to provide the bulk and bottled water and to support command post logistical support activities. During the course of providing water, several unexpected items arose. One was the higher usage of water than originally expected by some residents. The other item was the requirement for some plumbing services to switch from wells back to water buffaloes. The current monthly cost for this action for ERRS is estimated at approximately \$110,000. Therefore, the \$100,000 ceiling for ERRS and START will no longer be sufficient to continue the action. The OSC is also planning to switch some homes to larger 1000 gallon water buffalo tanks to allow for a more efficient bulk water delivery, deal with potential weather issues affecting water delivery and realize a cost savings.

Situation: On February 9, 2012 I received your verbal approval to raise my site ceiling from \$100,000 to \$225,000. I also understand that you received Headquarter concurrence on this increase. This approval also includes implementing cost savings by increasing tank sizes, as described above. A final Action Memorandum will be prepared documenting all cost and scope changes when the site operations are concluded.

Estimated Schedule: The last regularly scheduled 1<sup>st</sup> round sample will be collected on February 14, 2012. There will be a few remaining homes (residents on vacation or otherwise not available until later) where those samples will be collected in March 2012. With final data results for those last samples being received within approximately 5 weeks (March 23<sup>rd</sup>), it is estimated that data review analysis will and decisions for the next actions will extend into April 2012.

Therefore, without adding any additional homes, the site field activities are expected to last at least to April 30, 2012. It is estimated that the current site ceiling will allow operations to run to March 10, 2012.

Approved Costs:

	Current	New
ERRS	\$85,000	\$200,000
START	\$ 5,000	\$ 10,000
Contingency	<u>\$10,000</u>	<u>\$ 15,000</u>
	\$100,000	\$225,000

**Dimock ERRS Cost Estimate****2/10/2012**

Description	Monthly current mode
Cost to date	
Provided Bulk Water (4 homes)	\$14,102.00
Command Post Rental	\$2,200.00
Lodging/Per Diem	\$18,600.00
Fuel	\$2,700.00
Residential Bottled Water	\$500.00
Personnel	\$62,000.00
Contingency	\$5,000.00
CP Utilities	\$2,500.00
 TOTAL	 \$107,602.00
 Cost Incurred to Date	 \$85,000.00
 TOTAL	 \$192,602.00



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
SOLID WASTE AND EMERGENCY  
RESPONSE

JAN 19 2012

**MEMORANDUM**

**SUBJECT:** Region 3 Request for a Emergency Removal Action at the Dimock Residential Groundwater Site in Dimock Township, Susquehanna County, Pennsylvania

**FROM:** Gilberto Irizarry, Director  
Program Operations and Coordination Division

A handwritten signature in black ink, appearing to read "Gilberto Irizarry", written over the "FROM:" line.

**TO:** Lawrence M. Stanton, Director  
Office of Emergency Management

This memorandum requests your concurrence with the response proposed under the Region 3 Action Memorandum request for an emergency removal action at the Dimock Residential Groundwater Site. The actual approval of this action memo is done by the Region 3 Approving Official (Associate Director of the EPA Region 3, Office of Preparedness and Response, Hazardous Site Cleanup Division) or designee. Region 3 has submitted this action memo for concurrence to OEM under the nationally significant or precedent-setting policy. The site is not on the National Priorities List (NPL).

This removal action has been reviewed by a number of headquarters offices, including OGC, OECA, OSWER, and the Office of the Administrator.

Based on information from the draft final action memo and discussions with Region 3 and other pertinent headquarters offices, I recommend that we concur with the action proposed by Region 3. Please indicate your decision on the attached concurrence memorandum.

Attachment



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**REGION III**  
**1650 Arch Street**  
**Philadelphia, Pennsylvania 19103-2029**

**SUBJECT:** Concurrence on a Request for Funding for a Removal Action at the Dimock Residential Groundwater Site, Intersection of PA Routes 29 & 2024 Dimock Township, Susquehanna County, Pennsylvania

**FROM:** Dennis P. Carney, Associate Division Director  
Hazardous Site Cleanup Division (3HS30)  
Office of Preparedness and Response

**DATE:** 1/18/12

**TO:** Lawrence M. Stanton, Director  
Office of Emergency Management

**ATTN:** Gilberto Irizarry, Director  
Program Operations and Coordination Division

**ISSUE:**

EPA Region III is requesting concurrence on the attached "Request for Funding for a Removal Action at the Dimock Residential Groundwater Site, Intersection of PA Routes 29 & 2024 Dimock Township, Susquehanna County, Pennsylvania. Based on available data, the OSC has determined that home wells in the Dimock area contain hazardous substances some of which are not naturally found in the environment. The hazardous substances are at levels that present health concerns at four of the homes. These specific homes have been dependent upon donated water for drinking and/or household use and the reliability of the sources for donated water is at this point uncertain. The presence of hazardous substances constitutes a release or substantial threat of a release and the situation meets the criteria for conducting a removal action under Section 300.415 of the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). The OSC has determined that funds in the amount of \$100,000 are needed to mitigate the health concerns initially at four homes and therefore proposed the actions included in this Action Memorandum. The action includes home well sampling at approximately 61 homes within the Site area, based upon historical information and a sampling rationale developed. This sampling may result in recommendations for further EPA action, including the provision of alternate water at additional homes.

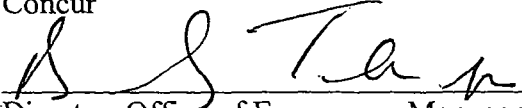
The OSC has determined that this Site meets the criteria for a Removal Action under Section 300.415 of the NCP. Because the conditions at the Site meet the criteria set forth in Section 300.415 of the NCP, and the Region finds that the conditions at the Site described above constitute a public health concern warranting attention, I am requesting your concurrence on the request for funding for the removal action based on redelegation of authority R-14-2 pertaining to nationally significant or precedent-setting removals. This approval is provided pursuant to

EPA delegation of authority 14-2 which gives the Associate Division Director of the EPA Region III, Office of Preparedness and Response, Hazardous Site Cleanup Division authority to approve CERCLA removal actions.

Because the action appears to be nationally significant and/or precedent-setting, the Region will continue to coordinate closely with Headquarters. EPA also will maintain coordination and communications with PADEP. In taking this action, EPA is aware of and has considered the potential applicability of the natural gas exclusion under CERCLA, the Bentsen Amendment under the Resource Conservation and Recovery Act (RCRA), and the exclusions to the definition of 'underground injection' under the Safe Drinking Water Act (SDWA). EPA has concluded that this action is appropriate under CERCLA at this time.

The Action Memorandum is attached for your review. My approval awaits your concurrence.

Concur

  
\_\_\_\_\_  
Director, Office of Emergency Management

1/19/2012  
Date

According to the redelegation, authority to non-concur remains with Assistant Administrator. If you choose not to concur on this action, please forward this memorandum to the Assistant Administrator.

Non-Concur:

\_\_\_\_\_  
Assistant Administrator for Solid Waste  
and Emergency Response

\_\_\_\_\_  
Date

cc: Mathy Stanislaus, AA-OSWER

Attachment: January 18, 2012 Action Memorandum

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**REGION III**  
**1650 Arch Street**  
**Philadelphia, Pennsylvania 19103-2029**

**Subject:** Action Memorandum - Request for Funding for a Removal Action at the Dimock Residential Groundwater Site, Intersection of PA Routes 29 & 2024  
Dimock Township, Susquehanna County, Pennsylvania

**From:** Richard M. Fetzner, On-Scene Coordinator  
Eastern Response Branch (3HS31)

**To:** Dennis P. Carney, Associate Division Director  
Hazardous Site Cleanup Division (3HS30)

**I. PURPOSE**

The purpose of this Action Memorandum is to request and document approval of an emergency removal action to prevent, limit, or mitigate the threats posed by the presence of hazardous substances at the Dimock Residential Groundwater Site (the "Site"), pursuant to Section 104(a) of the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. § 9604(a) (CERCLA). The Site is located in Dimock Township, Susquehanna County, Pennsylvania. The OSC has initiated a removal site evaluation in accordance with the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 C.F.R. Part 300. The OSC has determined, based on Pennsylvania Department of Environmental Protection (PADEP) and Cabot Oil and Gas Corporation (Cabot) sampling information, consultation with an EPA toxicologist, the Agency for Toxic Substances and Disease Registry (ATSDR) Record Of Activity (AROA), issued 12/28/11, and the recent EPA well survey effort, that a number of home wells in the Dimock area contain hazardous substances, some of which are not naturally found in the environment. Inorganic hazardous substances are present in four home wells at levels that present a public health concern. These four specific homes have been dependent upon donated water for drinking and/or household use and the reliability of the sources for donated water is at this point uncertain.

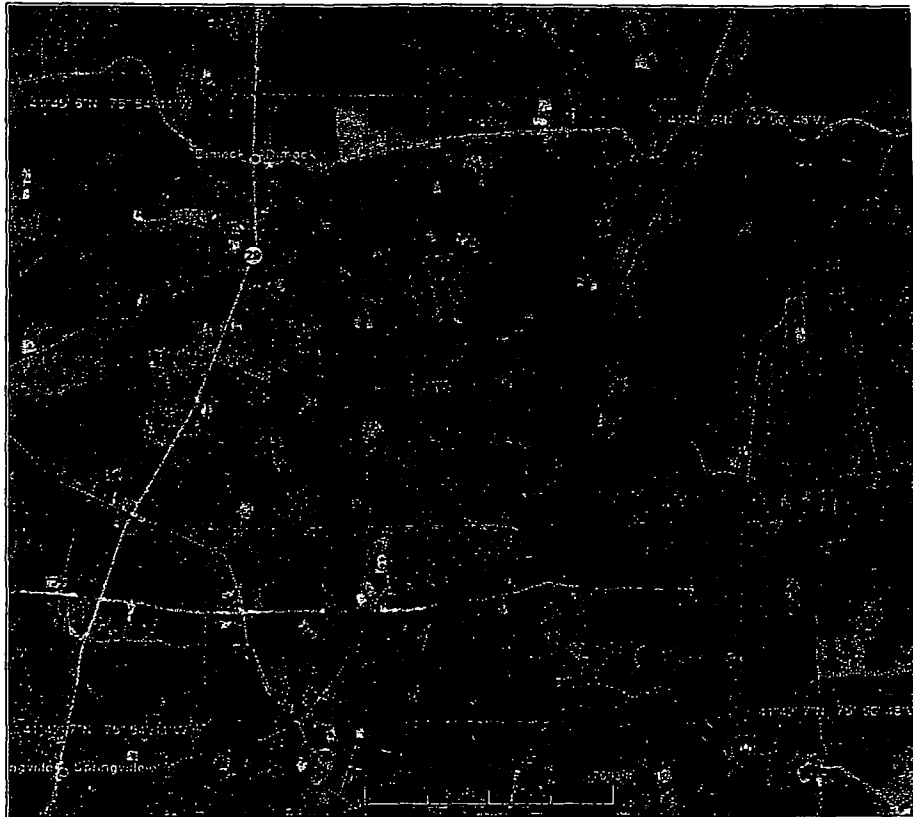
Historic drilling activities in the Dimock area may have used materials containing hazardous substances. Spills and other releases have been documented by PADEP from these drilling activities. There is reason to believe that a release of hazardous substances has occurred. The presence of hazardous substances in the four home wells constitutes a release or substantial threat of a release and the situation meets the criteria for conducting a removal action under Section 300.415 of the NCP. The OSC has determined that funds in the amount of \$100,000 are needed to mitigate the human health concern initially at four homes and therefore proposes the actions included in this Action Memorandum. This action includes provision of alternate water to four homes and home well sampling at approximately 61 homes within the Site area.

## II. SITE CONDITIONS AND BACKGROUND

### A. Background

1. Site Description - The Site area is located in Dimock, a rural area of northeastern Pennsylvania in Susquehanna County. A map of the area is included below.

2. History - Cabot began drilling for natural gas in the Dimock area in 2008. Methane contamination was detected in private wells thereafter in concentrations exceeding those previously found. PADEP had the lead in investigating the environmental complaints in Dimock. PADEP entered into a Consent Order and Agreement (CO&A) with Cabot which required permanent restoration or replacement of the



affected water supply. A public water line was initially considered. PADEP later modified the CO&A to require installation of "gas mitigation" systems for 19 homes served by 18 private wells in the Site area.<sup>1</sup> Until the gas mitigation systems were installed, Cabot was to provide a temporary water source. Some well owners, within the scope of the PADEP CO&A, have gas mitigation systems installed, but others do not. While the gas mitigation systems were designed to remove methane, a potential exists that they may remove some hazardous substances as a by-product of their operation. Regardless, EPA does not know what, if any, hazardous substances these "gas mitigation" systems, originally designed to address methane, are removing. Therefore, EPA is including both pre- and post-treatment sampling in the scope of this action. Furthermore, there are

<sup>1</sup> It had originally been reported that 19 homes were served by the 18 wells included within the scope of the CO&A but the door-to-door home well survey conducted to date by EPA has identified that there are currently 21 homes served by 20 wells on those same properties.

other homes served by private wells that were not covered by the scope of the PADEP CO&A, but are within this Site area.

### III. Quantities/Types of Substances Present

1. **Arsenic\*** – Arsenic is a naturally occurring element widely distributed in the earth's crust. Arsenic may also be present at elevated concentrations in the groundwater due to the use and effects of drilling fluids. Arsenic is classified as a known human carcinogen. This classification is based on animal and human studies, which indicate an increased risk for developing cancers of the skin, lung, bladder, kidney, liver, and prostate from consuming arsenic containing water. Non-cancer health effects associated with ingestion of arsenic include circulatory problems and skin damage.
2. **Barium** – Barium is a silvery-white metal that exists in nature only in ores containing mixtures of elements. It combines with other chemicals such as sulfur or carbon and oxygen to form barium compounds. Barium sulfate is sometimes used by doctors to perform medical tests and to take x-rays of the gastrointestinal tract. Ingesting drinking water containing levels of barium above the EPA drinking water guidelines for relatively short periods of time can cause gastrointestinal disturbances and muscle weakness. Ingesting high levels for a long time can damage the kidneys. Barium is known to be a common constituent of drilling fluids.
3. **Bis(2-ethylhexyl)phthalate (DEHP)\*** - DEHP is a manufactured chemical that is commonly added to plastics to make them flexible. The phthalates are generally considered to be of slight to moderate toxicity. DEHP may be irritating to the eyes, skin, and mucous membranes. Mild gastric disturbances and diarrhea may occur following ingestion of larger doses. Central nervous system (CNS) depression may occur if large amounts of phthalate acid esters are absorbed. EPA has determined that DEHP is a probable human carcinogen. These determinations were based entirely on liver cancer in rats and mice. DEHP is known to be associated with drilling activities.
4. **Glycol Compounds (including Ethylene Glycol\* and 2-Methoxyethanol)** – Glycol compounds are a class of organic compounds belonging to the alcohol family. Exposure to large amounts of ethylene glycol can damage the kidneys, nervous system, lungs, and heart. Exposure to high concentrations of 2-methoxyethanol is associated with testicular damage, impaired nervous system, and anemia. Glycols are known to be common in drilling fluids.
5. **Manganese\*** – Manganese is a naturally occurring substance found in many types of rock and soil. Manganese is also known to be a constituent of some specialized drilling fluids. Eating a small amount of manganese from food or water is needed to stay healthy. At high levels, it can cause damage to the nervous system.



6. Phenol\* - Phenol is both a manufactured chemical and a natural substance. Phenol is used as a disinfectant and is found in a number of consumer products. Skin exposure to high amounts can produce skin burns, liver damage, dark urine, and irregular heart beat. Various phenols are commonly associated with drilling fluids.
7. Sodium\* - Sodium is an essential nutrient and occurs naturally in most foods. Excessive sodium intake is associated with high blood pressure. Various sodium containing compounds are associated with drilling fluids.

\*A hazardous substance, as defined under CERCLA Section 101(14) and designated in Section 302.4 of the National Contingency Plan (NCP), 40 C.F.R. Section 302.4.

#### **B. National Priorities List**

The Dimock Residential Groundwater Site is not on the CERCLA National Priorities List (NPL).

#### **C. State and Local Authorities' Roles**

Cabot had been sampling the home wells and providing bottled drinking water and alternate water for non-potable use, through a Consent Order and Agreement (CO&A) with PADEP. The CO&A applies only to a specific list of homes, and does not include other homes, also located within the same geographic area. Some of these additional homes have had limited sampling conducted by Cabot and/or PADEP. PADEP determined that Cabot has complied with the terms of the CO&A, as it applies to the provision of temporary water, and subsequently approved Cabot's request to stop the delivery of alternate water.

### **IV. THREATS TO PUBLIC HEALTH OR WELFARE OR THE ENVIRONMENT**

Section 300.415 of the NCP lists the factors to be considered in determining the appropriateness of a Removal Action. Paragraphs (b)(2)(i), (ii), and (vii) of Section 300.415 directly apply to the conditions found at the Dimock Residential Groundwater Site.

In evaluating the situation, the OSC first considered whether hazardous substances were present in a home well. The levels of those hazardous substances were then considered against primary Maximum Contaminant Levels (MCLs). They were also considered for non-cancer risk to determine if the levels generate a hazard quotient greater than 2. The presence of inorganic and organic chemicals in a number of wells supports the need for this action.

**300.415 (b)(2)(i) “Actual or potential exposure to nearby human populations, animals or the food chain from hazardous substances or pollutants or contaminants”**

The hazardous substances listed above, present in water from home wells at this Site based on sampling data described below, could cause adverse health impacts when chronic exposure through drinking water or other uses of water in the home occurs. There are other contaminants discussed in the Agency for Toxic Substances and Disease Registry's (ATSDR) Record of Activity (AROA) issued on December 28, 2011, which could also cause adverse health impacts. ATSDR has concluded for the area originally included with the PADEP/Cabot CO&A, which includes the four homes being considered here for alternate water, that a chronic health risk exists for most wells and that the situation supports a “Do Not Use the Water” action including the consideration of alternative home water supplies until further characterization is completed. An EPA Region III toxicologist's opinion is that, of the homes evaluated to date in an on-going effort, that four home wells contain contaminants at levels that present a public health concern. In one home, manganese was detected at 628 ug/L. Exposure to this concentration would yield a Hazard Quotient of approximately 2. In another home, manganese (1360 ug/L) was detected at a level that generates a Hazard Quotient of approximately 4. Note that children reside at this location. In the third home, arsenic was observed at a concentration (37 ug/L) that exceeds its MCL of (10 ug/L) and would pose a long-term cancer risk of 8E-04. Note that children reside at this location. In the fourth home, manganese was detected at 669 ug/L. Exposure to this concentration would yield a Hazard Quotient of approximately 2.3. Available data also indicate that hazardous substances may be present in a number of other homes. Because the available data is not complete and is of uncertain quality, additional sampling is needed to facilitate a further evaluation of any potential health concerns from the drinking water at home wells in the Site area.

EPA is providing water based upon a risk of exposure to hazardous substances above health-based levels. Furthermore, the OSC notes that for those homes where the EPA toxicologist has not identified contaminants that present a public health concern, that the limited data available does identify the existence of hazardous substances. In addition, PADEP's CO&A determined that 18 home wells were impacted by drilling activities; such impact may be evidence of the migration of hazardous substances.

Again, it is noted that this determination is based upon data which was collected by parties other than EPA (Cabot and PADEP). The quality assurance/quality control (QA/QC) information has not been verified. However, what is clear is that this data strongly suggests that hazardous substances have been released and are present in some home wells at levels that may present a public health concern. Current data does show arsenic and manganese at higher levels than may be typically found, in post drilling samples. Since arsenic and manganese are naturally occurring substances, EPA's assessment will include comparisons of background concentrations and post drilling concentrations present. EPA routinely acts under CERCLA to protect public health first while it acts to further define contamination. Thus, within this action, EPA will complete an assessment of the water quality of the home wells in the Site area to close information gaps as soon as possible. This sampling will be focused initially on evaluating those homes in the Site area that have been sampled in the past. Beyond that, sampling at homes will be based upon a sampling rationale using information regarding alleged health impacts and

data gaps. In addition, EPA will continue to evaluate the updated data, and may revise its actions to provide water to any of the additional homes, or to cease provision of water, as warranted by the data.

**300.415 (b)(2)(ii) "Actual or potential contamination of drinking water supplies or sensitive ecosystems"**

The discussion of 300.415 (b) (2) (i) above applies to this factor. Both organic and inorganic contaminants have been detected in home wells. Although this action is predominantly based upon inorganic data at the four homes, it should be noted that organic compounds have been detected at other homes as detailed in the ATSDR AROA. Glycol detections included ethylene glycol, triethylene glycol, and 2,2'-oxybisethanol (diethylene glycol). Some wells had all three reported glycols present in their wells but no exceedances of risk based screening criteria (note: the analytical detection level used appeared to be higher than screening levels). Bis(2-ethylhexyl) phthalate (DEHP) was detected in five samples and ranged from 0.14 µg/L to 22 ug/L. 2-methoxyethanol concentrations (ranging from 880 ug/L to 1,300 ug/L) were detected in each of six wells.

**300.415 (b) (2) (vii) "The availability of other appropriate federal or state response mechanisms to respond to the release"**

The four homes being considered for alternate water under this action were all dependent upon donated water, either bottled, water buffaloes (temporary storage tanks) or both. It is the OSC's understanding that the last delivery of bulk water from those organizations ceased on January 3, 2012. In any case the reliability of sources for donated water is at best uncertain.

**V. PROPOSED ACTIONS AND ESTIMATED COSTS**

**A. Proposed Action**

**1. Proposed Action Description**

Throughout the duration of Site activities, all personnel involved with execution of this proposed action will comply with the requirements of CERCLA and with all other applicable Federal and State regulations to the extent practicable considering the exigencies of the situation in accordance with 40 CFR § 300.415(j). Available data indicate that a number of homes in the area have hazardous substances present in the home wells, but only four indicate concentrations identified by the EPA toxicologist at a level of concern. Thus, those four homes will be immediately supplied with water. At the same time, approximately 61 home wells will be sampled by EPA to obtain data of known quality assurance to support future evaluations and response decisions. EPA will continue to evaluate the updated data, and may revise its actions to provide water to any of the additional homes, or to cease provision of water, as warranted by the data. The Removal activities at the Site will include the following:

1. Mobilize and demobilize personnel and equipment to conduct the action;
2. Delivery of a temporary source of clean water for household use to the four (4) homes with wells that contain contaminants at levels of public health concern. This provision of temporary water will continue until potential exposures are further understood and mitigated as needed.
3. The sampling program will include analysis for a broad range of parameters with a special priority being placed on quick turnaround for those parameters which are most frequently observed in the data available to EPA at this time. The Agency will also do some limited sampling for methane and bacteriological constituents. Home well water sampling will be performed by EPA in the Site area using the following assigned priority:

- i. The four (4) homes considered for provision of alternate water, to assess the potential exposure to hazardous substances and to determine whether continued temporary provision of clean water for household use is required.
- ii. The seventeen (17) remaining homes located on properties included in the PADEP/Cabot CO&A<sup>2</sup>, which were identified as being impacted by drilling activities.
- iii. Approximately thirty (30) additional homes in the immediate area that have been sampled in the past.
- iv. Additional homes in the Site area where one or more of the factors below supports sampling.
  1. Direct observation or other evidence (home well surveys) of adverse health effects potentially attributable to contaminated groundwater use.
  2. Where data gaps in groundwater measurement or sampling need to be filled to gain an adequate understanding of Site conditions.

Approximately ten (10) homes are currently identified from well surveys, but more could be added based upon data review.

4. Maintain necessary documentation of Site activities.
5. Develop and implement appropriate health and safety protocols for the removal activity.

---

<sup>2</sup> It had originally been reported that 19 homes were served by the 18 wells included within the scope of the CO&A but the door-to-door home well survey conducted to date by EPA has identified that there are currently 21 homes served by 20 wells on those same properties.

## **2. Contribution to Remedial Performance**

A remedial action is not anticipated and therefore this removal action is not inconsistent with any proposed remedial action.

## **3. Applicable or Relevant and Appropriate Requirements ("ARARs")**

Actions will be conducted in compliance with Applicable or Relevant and Appropriate Regulations (ARARs) to the extent practicable considering the exigencies of the situation, in accordance with 40 CFR 300.415(j).

### **B. Estimated Costs**

Extramural Costs	Total
Regional Allowance Costs: (ERRs Contractors and Subcontractors)	\$ 50,000
Other Extramural Costs Not Funded From the Regional Allowance: START Contractor	\$ 25,000
Subtotal, Extramural	\$ 75,000
Extramural Costs Contingency	\$ 25,000
<b>Total Removal Action Project Ceiling</b>	<b>\$100,000</b>

## **VI. EXPECTED CHANGE IN SITUATION SHOULD ACTION BE DELAYED OR NOT TAKEN**

If no action is taken, the residents may utilize well water which poses a potential public health concern.

## **VII. OUTSTANDING POLICY ISSUES**

Because this response action could be considered nationally significant or precedent setting, it requires the prior concurrence of the Assistant Administrator, Office of Solid Waste and Emergency Response (AA-OSWER). Furthermore, because the action appears to be nationally significant and/or precedent-setting, the Region will continue to coordinate closely with Headquarters. EPA also will maintain coordination and communications with PADEP. In taking this action, EPA is aware of and has considered the potential applicability of the natural gas exclusion under CERCLA, the Bentsen Amendment under the Resource Conservation and Recovery Act (RCRA), and the exclusions to the definition of 'underground injection' under the Safe Drinking Water Act (SDWA). EPA has concluded that this action is appropriate under CERCLA at this time.

## VIII. ENFORCEMENT

The total EPA costs for this removal action based upon full-cost accounting practices that will be eligible for cost recovery are estimated below as follows:<sup>3</sup>

Direct Extramural Costs	\$100,000
Direct Intramural Costs	\$ 25,000
Total Direct Costs	\$125,000
Indirect Cost (67.13% x Direct Costs)	\$ 83,912
Total Costs (Direct and Indirect)	\$208,912

## IX. RECOMMENDATION

This Action Memorandum represents the selected Removal Action for the Dimock Residential Groundwater Site in Dimock Township, Susquehanna County, Pennsylvania, developed in accordance with CERCLA, as amended, and is consistent with the NCP. This decision is based on the administrative record for the Site. The administrative record consists of the following documents

1. 1/13/12 "Dimock Home Well Data" memo from EPA Toxicologist Dawn Ioven.
2. ATSDR AROA Issued 12/28/11.
3. Summary of Portions of data received by EPA and reviewed by the OSC.
4. PADEP Consent Order and Agreement, dated December 15, 2010.
5. EPA Data Review Memo, January 13, 2012.
6. EPA 104e request to Cabot, January 6, 2012.

Conditions at the Site meet the Removal Action requirements of Section 300.415(b) of the NCP and I recommend your approval of the proposed removal action and exemption from the statutory limits. The total project ceiling, if approved, will be \$100,000. Of this, as much as, \$50,000 comes from the Regional removal allowance. Please indicate your approval or disapproval below.

---

<sup>3</sup> Direct Costs include direct extramural costs and direct intramural costs. Indirect costs are calculated based on an estimated indirect cost rate expressed as a percentage of site-specific direct costs, consistent with the full cost accounting methodology effective October 2, 2000. These estimates do not include pre-judgment interest, do not take into account other enforcement costs, including Department of Justice costs, and may be adjusted during the course of a removal action. The estimates are for illustrative purposes only and their use is not intended to create any rights for responsible parties. Neither the lack of a total cost estimate nor deviation of actual total costs from this estimate will affect the United States' right to cost recovery.

Action by the Approving Official:

I have reviewed the above-stated facts and, based upon those facts and the information compiled in the documents described above, I hereby approve/disapprove the selected removal action.

**APPROVED:** \_\_\_\_\_

Dennis P. Carney, Associate Division Director  
Hazardous Site Cleanup Division  
EPA Region 3

**DATE** \_\_\_\_\_

**DISAPPROVED:** \_\_\_\_\_

Dennis P. Carney, Associate Division Director  
Hazardous Site Cleanup Division  
EPA Region 3

**DATE** \_\_\_\_\_

## ROUTING AND TRANSMITTAL SLIP

Date

01/19/12

TO: (Name, office symbol, room number,  
building, Agency/Post)

Initials

Date

1. Gilberto "Tito" Irizarry POCD Director

GP

1/19/12

2. Larry Stanton/Dana Tulis OEM OD/DOD

D7

1/19/12

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- ☐ Action  
☐ Approv  
☐ As Rec  
☐ Circula  
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☐ Coordi

REMARKS

Jerry/Luck  
Hard copy for your  
files.

Ell

and Return

Conversation

e Reply

e

ire

Re: Region 3 Action Memo for OEM Concurrence - Dimock Residential Groundwater Site

See enclosed memo

DO NOT use this form as a RECORD of approvals, concurrences, disposals,  
clearances, and similar actions

FROM: (Name, org. symbol, Agency/Post)

POCD

Room No. - Bldg.

Phone No.  
(202) 564-7982

OPTIONAL FORM 41 (Rev. 1-94)  
Prescribed by GSA



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2. Delivery of a temporary source of clean water for household use to the four (4) homes with wells that contain contaminants at levels of public health concern. This provision of temporary water will continue until potential exposures are further understood and mitigated as needed.
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Conditions at the Site meet the Removal Action requirements of Section 300.415(b) of the NCP and I recommend your approval of the proposed removal action and exemption from the statutory limits. The total project ceiling, if approved, will be \$100,000. Of this, as much as, \$50,000 comes from the Regional removal allowance. Please indicate your approval or disapproval below.

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Action by the Approving Official:

I have reviewed the above-stated facts and, based upon those facts and the information compiled in the documents described above, I hereby approve/disapprove the selected removal action.

**APPROVED:** \_\_\_\_\_

Dennis P. Carney, Associate Division Director  
Hazardous Site Cleanup Division  
EPA Region 3

**DATE** \_\_\_\_\_

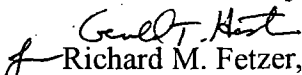
**DISAPPROVED:** \_\_\_\_\_

Dennis P. Carney, Associate Division Director  
Hazardous Site Cleanup Division  
EPA Region 3

**DATE** \_\_\_\_\_

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
1650 Arch Street  
Philadelphia, Pennsylvania 19103-2029

**Subject:** Action Memorandum - Request for Funding for a Removal Action at the Dimock Residential Groundwater Site, Intersection of PA Routes 29 & 2024  
Dimock Township, Susquehanna County, Pennsylvania

**From:**  Richard M. Fetzer, On-Scene Coordinator  
Eastern Response Branch (3HS31)

**To:** Dennis P. Carney, Associate Division Director  
Hazardous Site Cleanup Division (3HS30)

JAN 19 2012

**I. PURPOSE**

The purpose of this Action Memorandum is to request and document approval of an emergency removal action to prevent, limit, or mitigate the threats posed by the presence of hazardous substances at the Dimock Residential Groundwater Site (the "Site"), pursuant to Section 104(a) of the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. § 9604(a) (CERCLA). The Site is located in Dimock Township, Susquehanna County, Pennsylvania. The OSC has initiated a removal site evaluation in accordance with the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 C.F.R. Part 300. The OSC has determined, based on Pennsylvania Department of Environmental Protection (PADEP) and Cabot Oil and Gas Corporation (Cabot) sampling information, consultation with an EPA toxicologist, the Agency for Toxic Substances and Disease Registry (ATSDR) Record Of Activity (AROA), issued 12/28/11, and the recent EPA well survey effort, that a number of home wells in the Dimock area contain hazardous substances, some of which are not naturally found in the environment. Inorganic hazardous substances are present in four home wells at levels that present a public health concern. These four specific homes have been dependent upon donated water for drinking and/or household use and the reliability of the sources for donated water is at this point uncertain.

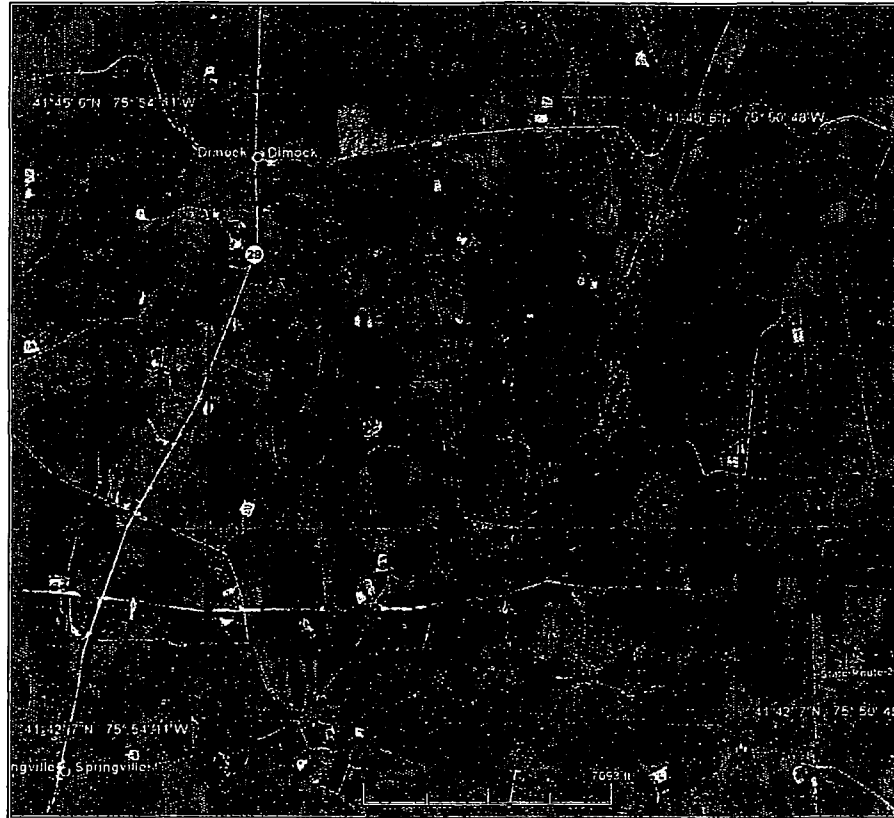
Historic drilling activities in the Dimock area may have used materials containing hazardous substances. Spills and other releases have been documented by PADEP from these drilling activities. There is reason to believe that a release of hazardous substances has occurred. The presence of hazardous substances in the four home wells constitutes a release or substantial threat of a release and the situation meets the criteria for conducting a removal action under Section 300.415 of the NCP. The OSC has determined that funds in the amount of \$100,000 are needed to mitigate the human health concern initially at four homes and therefore proposes the actions included in this Action Memorandum. This action includes provision of alternate water to four homes and home well sampling at approximately 61 homes within the Site area.

## II. SITE CONDITIONS AND BACKGROUND

### A. Background

1. Site Description - The Site area is located in Dimock, a rural area of northeastern Pennsylvania in Susquehanna County. A map of the area is included below.

2. History - Cabot began drilling for natural gas in the Dimock area in 2008. Methane contamination was detected in private wells thereafter in concentrations exceeding those previously found. PADEP had the lead in investigating the environmental complaints in Dimock. PADEP entered into a Consent Order and Agreement (CO&A) with Cabot which required permanent restoration or replacement of the



affected water supply. A public water line was initially considered. PADEP later modified the CO&A to require installation of “gas mitigation” systems for 19 homes served by 18 private wells in the Site area.<sup>1</sup> Until the gas mitigation systems were installed, Cabot was to provide a temporary water source. Some well owners, within the scope of the PADEP CO&A, have gas mitigation systems installed, but others do not. While the gas mitigation systems were designed to remove methane, a potential exists that they may remove some hazardous substances as a by-product of their operation. Regardless, EPA does not know what, if any, hazardous substances these “gas mitigation” systems, originally designed to address methane, are removing. Therefore, EPA is including both pre- and post-treatment sampling in the scope of this action. Furthermore, there are

<sup>1</sup> It had originally been reported that 19 homes were served by the 18 wells included within the scope of the CO&A but the door-to-door home well survey conducted to date by EPA has identified that there are currently 21 homes served by 20 wells on those same properties.

other homes served by private wells that were not covered by the scope of the PADEP CO&A, but are within this Site area.

### III. Quantities/Types of Substances Present

1. Arsenic\* – Arsenic is a naturally occurring element widely distributed in the earth's crust. Arsenic may also be present at elevated concentrations in the groundwater due to the use and effects of drilling fluids. Arsenic is classified as a known human carcinogen. This classification is based on animal and human studies, which indicate an increased risk for developing cancers of the skin, lung, bladder, kidney, liver, and prostate from consuming arsenic containing water. Non-cancer health effects associated with ingestion of arsenic include circulatory problems and skin damage.
2. Barium – Barium is a silvery-white metal that exists in nature only in ores containing mixtures of elements. It combines with other chemicals such as sulfur or carbon and oxygen to form barium compounds. Barium sulfate is sometimes used by doctors to perform medical tests and to take x-rays of the gastrointestinal tract. Ingesting drinking water containing levels of barium above the EPA drinking water guidelines for relatively short periods of time can cause gastrointestinal disturbances and muscle weakness. Ingesting high levels for a long time can damage the kidneys. Barium is known to be a common constituent of drilling fluids.
3. Bis(2-ethylhexyl)phthalate (DEHP)\* - DEHP is a manufactured chemical that is commonly added to plastics to make them flexible. The phthalates are generally considered to be of slight to moderate toxicity. DEHP may be irritating to the eyes, skin, and mucous membranes. Mild gastric disturbances and diarrhea may occur following ingestion of larger doses. Central nervous system (CNS) depression may occur if large amounts of phthalate acid esters are absorbed. EPA has determined that DEHP is a probable human carcinogen. These determinations were based entirely on liver cancer in rats and mice. DEHP is known to be associated with drilling activities.
4. Glycol Compounds (including Ethylene Glycol\* and 2-Methoxyethanol) – Glycol compounds are a class of organic compounds belonging to the alcohol family. Exposure to large amounts of ethylene glycol can damage the kidneys, nervous system, lungs, and heart. Exposure to high concentrations of 2-methoxyethanol is associated with testicular damage, impaired nervous system, and anemia. Glycols are known to be common in drilling fluids.
5. Manganese\* – Manganese is a naturally occurring substance found in many types of rock and soil. Manganese is also known to be a constituent of some specialized drilling fluids. Eating a small amount of manganese from food or water is needed to stay healthy. At high levels, it can cause damage to the nervous system.

6. Phenol\* - Phenol is both a manufactured chemical and a natural substance. Phenol is used as a disinfectant and is found in a number of consumer products. Skin exposure to high amounts can produce skin burns, liver damage, dark urine, and irregular heart beat. Various phenols are commonly associated with drilling fluids.
7. Sodium\* - Sodium is an essential nutrient and occurs naturally in most foods. Excessive sodium intake is associated with high blood pressure. Various sodium containing compounds are associated with drilling fluids.

\*A hazardous substance, as defined under CERCLA Section 101(14) and designated in Section 302.4 of the National Contingency Plan (NCP), 40 C.F.R. Section 302.4.

#### **B. National Priorities List**

The Dimock Residential Groundwater Site is not on the CERCLA National Priorities List (NPL).

#### **C. State and Local Authorities' Roles**

Cabot had been sampling the home wells and providing bottled drinking water and alternate water for non-potable use, through a Consent Order and Agreement (CO&A) with PADEP. The CO&A applies only to a specific list of homes, and does not include other homes, also located within the same geographic area. Some of these additional homes have had limited sampling conducted by Cabot and/or PADEP. PADEP determined that Cabot has complied with the terms of the CO&A, as it applies to the provision of temporary water, and subsequently approved Cabot's request to stop the delivery of alternate water.

### **IV. THREATS TO PUBLIC HEALTH OR WELFARE OR THE ENVIRONMENT**

Section 300.415 of the NCP lists the factors to be considered in determining the appropriateness of a Removal Action. Paragraphs (b)(2)(i), (ii), and (vii) of Section 300.415 directly apply to the conditions found at the Dimock Residential Groundwater Site.

In evaluating the situation, the OSC first considered whether hazardous substances were present in a home well. The levels of those hazardous substances were then considered against primary Maximum Contaminant Levels (MCLs). They were also considered for non-cancer risk to determine if the levels generate a hazard quotient greater than 2. The presence of inorganic and organic chemicals in a number of wells supports the need for this action.



**300.415 (b)(2)(i) "Actual or potential exposure to nearby human populations, animals or the food chain from hazardous substances or pollutants or contaminants"**

The hazardous substances listed above, present in water from home wells at this Site based on sampling data described below, could cause adverse health impacts when chronic exposure through drinking water or other uses of water in the home occurs. There are other contaminants discussed in the Agency for Toxic Substances and Disease Registry's (ATSDR) Record of Activity (AROA) issued on December 28, 2011, which could also cause adverse health impacts. ATSDR has concluded for the area originally included with the PADEP/Cabot CO&A, which includes the four homes being considered here for alternate water, that a chronic health risk exists for most wells and that the situation supports a "Do Not Use the Water" action including the consideration of alternative home water supplies until further characterization is completed. An EPA Region III toxicologist's opinion is that, of the homes evaluated to date in an on-going effort, that four home wells contain contaminants at levels that present a public health concern. In one home, manganese was detected at 628 ug/L. Exposure to this concentration would yield a Hazard Quotient of approximately 2. In another home, manganese (1360 ug/L) was detected at a level that generates a Hazard Quotient of approximately 4. Note that children reside at this location. In the third home, arsenic was observed at a concentration (37 ug/L) that exceeds its MCL of (10 ug/L) and would pose a long-term cancer risk of 8E-04. Note that children reside at this location. In the fourth home, manganese was detected at 669 ug/L. Exposure to this concentration would yield a Hazard Quotient of approximately 2.3. Available data also indicate that hazardous substances may be present in a number of other homes. Because the available data is not complete and is of uncertain quality, additional sampling is needed to facilitate a further evaluation of any potential health concerns from the drinking water at home wells in the Site area.

EPA is providing water based upon a risk of exposure to hazardous substances above health-based levels. Furthermore, the OSC notes that for those homes where the EPA toxicologist has not identified contaminants that present a public health concern, that the limited data available does identify the existence of hazardous substances. In addition, PADEP's CO&A determined that 18 home wells were impacted by drilling activities; such impact may be evidence of the migration of hazardous substances.

Again, it is noted that this determination is based upon data which was collected by parties other than EPA (Cabot and PADEP). The quality assurance/quality control (QA/QC) information has not been verified. However, what is clear is that this data strongly suggests that hazardous substances have been released and are present in some home wells at levels that may present a public health concern. Current data does show arsenic and manganese at higher levels than may be typically found, in post drilling samples. Since arsenic and manganese are naturally occurring substances, EPA's assessment will include comparisons of background concentrations and post drilling concentrations present. EPA routinely acts under CERCLA to protect public health first while it acts to further define contamination. Thus, within this action, EPA will complete an assessment of the water quality of the home wells in the Site area to close information gaps as soon as possible. This sampling will be focused initially on evaluating those homes in the Site area that have been sampled in the past. Beyond that, sampling at homes will be based upon a sampling rationale using information regarding alleged health impacts and

data gaps. In addition, EPA will continue to evaluate the updated data, and may revise its actions to provide water to any of the additional homes, or to cease provision of water, as warranted by the data.

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    2. Where data gaps in groundwater measurement or sampling need to be filled to gain an adequate understanding of Site conditions.

Approximately ten (10) homes are currently identified from well surveys, but more could be added based upon data review.
4. Maintain necessary documentation of Site activities.
5. Develop and implement appropriate health and safety protocols for the removal activity.

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<sup>2</sup> It had originally been reported that 19 homes were served by the 18 wells included within the scope of the CO&A but the door-to-door home well survey conducted to date by EPA has identified that there are currently 21 homes served by 20 wells on those same properties.

## **2. Contribution to Remedial Performance**

A remedial action is not anticipated and therefore this removal action is not inconsistent with any proposed remedial action.

## **3. Applicable or Relevant and Appropriate Requirements ("ARARs")**

Actions will be conducted in compliance with Applicable or Relevant and Appropriate Regulations (ARARs) to the extent practicable considering the exigencies of the situation, in accordance with 40 CFR 300.415(j).

### **B. Estimated Costs**

Extramural Costs	Total
Regional Allowance Costs: (ERRs Contractors and Subcontractors)	\$ 50,000
Other Extramural Costs Not Funded From the Regional Allowance: START Contractor	\$ 25,000
Subtotal, Extramural	\$ 75,000
Extramural Costs Contingency	\$ 25,000
<b>Total Removal Action Project Ceiling</b>	<b>\$100,000</b>

## **VI. EXPECTED CHANGE IN SITUATION SHOULD ACTION BE DELAYED OR NOT TAKEN**

If no action is taken, the residents may utilize well water which poses a potential public health concern.

## **VII. OUTSTANDING POLICY ISSUES**

Because this response action could be considered nationally significant or precedent setting, it requires the prior concurrence of the Assistant Administrator, Office of Solid Waste and Emergency Response (AA-OSWER). Furthermore, because the action appears to be nationally significant and/or precedent-setting, the Region will continue to coordinate closely with Headquarters. EPA also will maintain coordination and communications with PADEP. In taking this action, EPA is aware of and has considered the potential applicability of the natural gas exclusion under CERCLA, the Bentsen Amendment under the Resource Conservation and Recovery Act (RCRA), and the exclusions to the definition of 'underground injection' under the Safe Drinking Water Act (SDWA). EPA has concluded that this action is appropriate under CERCLA at this time.

## VIII. ENFORCEMENT

The total EPA costs for this removal action based upon full-cost accounting practices that will be eligible for cost recovery are estimated below as follows:<sup>3</sup>

Direct Extramural Costs	\$100,000
Direct Intramural Costs	\$ 25,000
Total Direct Costs	\$125,000
Indirect Cost (67.13% x Direct Costs)	\$ 83,912
Total Costs (Direct and Indirect)	\$208,912

## IX. RECOMMENDATION

This Action Memorandum represents the selected Removal Action for the Dimock Residential Groundwater Site in Dimock Township, Susquehanna County, Pennsylvania, developed in accordance with CERCLA, as amended, and is consistent with the NCP. This decision is based on the administrative record for the Site. The administrative record consists of the following documents

1. 1/13/12 "Dimock Home Well Data" memo from EPA Toxicologist Dawn Ioven.
2. ATSDR AROA Issued 12/28/11.
3. Summary of Portions of data received by EPA and reviewed by the OSC.
4. PADEP Consent Order and Agreement, dated December 15, 2010.
5. EPA Data Review Memo, January 13, 2012.
6. EPA 104e request to Cabot, January 6, 2012.

Conditions at the Site meet the Removal Action requirements of Section 300.415(b) of the NCP and I recommend your approval of the proposed removal action and exemption from the statutory limits. The total project ceiling, if approved, will be \$100,000. Of this, as much as, \$50,000 comes from the Regional removal allowance. Please indicate your approval or disapproval below.

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<sup>3</sup> Direct Costs include direct extramural costs and direct intramural costs. Indirect costs are calculated based on an estimated indirect cost rate expressed as a percentage of site-specific direct costs, consistent with the full cost accounting methodology effective October 2, 2000. These estimates do not include pre-judgment interest, do not take into account other enforcement costs, including Department of Justice costs, and may be adjusted during the course of a removal action. The estimates are for illustrative purposes only and their use is not intended to create any rights for responsible parties. Neither the lack of a total cost estimate nor deviation of actual total costs from this estimate will affect the United States' right to cost recovery.

Action by the Approving Official:

I have reviewed the above-stated facts and, based upon those facts and the information compiled in the documents described above, I hereby approve/disapprove the selected removal action.

**APPROVED:** Dennis P. Carney  
Dennis P. Carney, Associate Division Director  
Hazardous Site Cleanup Division  
EPA Region 3

**DATE** 1/19/2012

**DISAPPROVED:** \_\_\_\_\_  
Dennis P. Carney, Associate Division Director  
Hazardous Site Cleanup Division  
EPA Region 3

**DATE** \_\_\_\_\_

# REQUISITION

PROCUREMENT REQUEST NO.

PR-R3-12-00179

REQUISITION DATE

02/09/2012

1. NAME, PHONE NUMBER, AND ROUTING SYMBOL OF PERSON TO CONTACT  
RICH FETZER/215-341-6307

3. ORIGINATING OFFICE DATA

Region 3

4. ADDITIONAL INFORMATION (Suggested supply sources, security data, etc.)

KEMRON ENVIRONMENTAL SERVICES, INC. JOHN DWYER  
4046360928

2. TYPE OF REQUEST (Check one)

A. ☒ NEW REQUESTB. ☐ CHANGE TO  
PENDING PR NO.C. ☐ MODIFICATION TO  
CONTRACT OR  
ORDER NO.

## 5. APPROVALS

APPROVING OFFICIALS (A)	ROUTING SYMBOL (B)	DATE (C)	INTERNAL ROUTING	
			INITIALS (D)	ROUTING SYMBOL (E)
(1) AUTHORIZED REQUISITIONER Jacqueline Williams	ROGRAM OFF	02/09/2012		
(2) Financial Interface	COTS	02/09/2012		
(3) Kevin Eller	ROGRAM OFF	02/09/2012		
(4) Fran Burns	R3 PROGRAM	02/09/2012		

6. CONSIGNEE AND DESTINATION

Region 3

US Environmental Protection Agency  
1650 Arch Street  
Philadelphia PA 19103-2029

7. DATE(S) REQUIRED

02/09/2012

8. GOVERNMENT FURNISHED PROPERTY

☐ YES ☒ NO (If "yes," see par. 8 of instructions on next page.)

## 9. DESCRIPTION OF ITEMS OR SERVICES

ITEM NO. (A)	ITEM OR SERVICE (Include Specifications and Special Instructions) (B)	QUANTITY (C)	UNIT (D)	ESTIMATED COST	
				UNIT (E)	AMOUNT (F)
0001	Need Date: 02/09/2012 Brand Name: N Rec Proc Method: EXISTING CONTRACT BFY: 12 Fund: T Budget Org: 3AS0E Program (PRC): 303DC6 Budget (BOC): 2505 Job #: A3TARV00 Cost: C001 DCN - Line ID: 123ASA1013-001 FOB: Destination  Site Name: Dimock Residential Groundwater Site id #: A3TA Location: Dimock, PA  Task Order No. 0703-03-035 Contract No. - EP-S3-07-03  Continue Removal Activities.				<div>Ex. 4 - CBI</div>
				TOTAL ESTIMATED COST	
				Ex. 4 - CBI	

10. ACCOUNTING DATA

Accounting Info : 12-T-3AS0E-303DC6-2505-C001-123ASA1013-001

## INSTRUCTIONS FOR PREPARATION OF PROCUREMENT REQUEST (PR)

- GENERAL** - Leave upper right hand corner blank. These spaces are for procurement office use. Complete all applicable blanks.  
NAME, PHONE NUMBER AND ROUTING SYMBOL  
of person to contact concerning this request.
- ITEM 1** - justification should be attached to the PR. The justification should state why expedited handling is necessary and the probable results if the indicated delivery date(s) is not met.
- ITEM 2** - **TYPE OF REQUEST**  
A. Check "New Request" if this is an initial request.  
B. If this is a change to a pending PR, check and enter PR number assigned by procurement office.  
C. If PR is for modifying an existing order or contract, check box, and enter order or contract number assigned by procurement office.
- ITEM 3** - **ORIGINATING OFFICE DATA.** Enter any internal data needed by the office preparing the PR, such as internal PR number, project or task number etc.
- ITEM 4** - **ADDITIONAL INFORMATION.** Use this space to indicate suggested sources of supply, any applicable security classification, or for other instructions or data.  
  
If the items or services are proposed to be obtained from only one source of supply, furnish a "sole source" justification with the PR.
- ITEM 5** - **APPROVALS.**  
**COL.A\_APPROVING OFFICIALS.** Enter typed name and title for approving officials as indicated below:  
  
(1) Authorized Requisitioner. Signature of person authorized to approve request for procurement action.  
  
(2) - (4) For use as may be required by local instructions.  
  
**COL.B\_ROUTING SYMBOL.** Self-explanatory  
**COL.C\_DATE.** Give date of approval.  
**COL.D AND COL.E\_INTERNAL ROUTING.** Use these blocks only if internal review and intermediate approvals are required by approving officials.
- ITEM 6** - **CONSIGNEE AND DESTINATION** Enter the name of the consignee and address location where requested items are to be delivered or services are to be performed.  
  
If shipments are to be made to more than one destination, enter words "Multiple Destinations" in this block, and attach a list of the consignee address where shipments are to be made.
- ITEM 7** - **DATE(S) REQUIRED.** Enter the date(s) that re-requested items are required. Do not use "as soon as possible" or similar terms. When the requested items and/or services are required sooner than the normal procurement lead-time would permit, a written
- ITEM 8** - **GOVERNMENT FURNISHED PROPERTY.** If "Yes" is checked, describe each item to be furnished by the Government and state its acquisition cost (estimated if unattainable), and state the use to be made of the item(s) by the contractor.
- ITEM 9** - **DESCRIPTION OF ITEMS OR SERVICES**  
  
**COL.A\_ITEM NO.** Enter item numbers in numerical sequence.  
  
**COL.B\_ITEM OR SERVICE.** Identify applicable specifications, drawings, and purchase descriptions, and attach a copy of each. Provide Federal Stock Numbers if known and manufacturer's part number, if applicable.  
  
If a brand name or equal product, state the commercial brand name and model, and set forth those characteristics essential to Government needs.  
  
Furnish any special shipping and routing instructions, and any preservation, packaging, packing, and marking instructions.  
  
Furnish any other instructions, such as inspection and testing requirements  
  
**COL.C\_QUANTITY.** Enter the quantity of each item requested.  
  
**COL.D\_UNIT.** The measure such as "each", or "set"  
  
**COL.E\_ESTIMATED UNIT COST.** Use the most current price available, i.e., the reasonable "going market price," as may be obtainable from commercial catalogs, price lists, bulletins, reports, trade journals and the like.  
  
If the requested item or service has been previously procured, and no other more current pricing data is available, use last known purchase price.  
  
**COL.F\_ESTIMATED TOTAL COST.** Enter the total estimated cost for each item and grand total cost for all items.
- ITEM 10** - **ACCOUNTING DATA.** Enter the appropriations(s) under which funds have been made available, and any other accounting data required.



REQUISITION					PROCUREMENT REQUEST NO. PR-R3-12-00179/000001	
1. NAME, PHONE NUMBER, AND ROUTING SYMBOL OF PERSON TO CONTACT RICH FETZER/215-341-6307					REQUISITION DATE 02/10/2012	
3. ORIGINATING OFFICE DATA Region 3					2. TYPE OF REQUEST (Check one) A. <input type="checkbox"/> NEW REQUEST B. <input checked="" type="checkbox"/> CHANGE TO PENDING PR NO. PR-R3-12-00179 C. <input type="checkbox"/> MODIFICATION TO CONTRACT OR ORDER NO.	
4. ADDITIONAL INFORMATION (Suggested supply sources, security data, etc.) KEMRON ENVIRONMENTAL SERVICES, INC. JOHN DWYER 4046360928						
5. APPROVALS					6. CONSIGNEE AND DESTINATION Region 3 US Environmental Protection Agency 1650 Arch Street Philadelphia PA 19103-2029	
APPROVING OFFICIALS (A)	ROUTING SYMBOL (B)	DATE (C)	INTERNAL ROUTING			
			INITIALS (D)	ROUTING SYMBOL (E)		
(1) AUTHORIZED REQUISITIONER						
Jacqueline Williams	ROGRAM OFF	02/10/2012				
(2)						
Financial Interface	COTS	02/10/2012				
(3)						
Kevin Eller	ROGRAM OFF	02/10/2012				
(4)						
Fran Burns	R3 PROGRAM	02/10/2012				
9. DESCRIPTION OF ITEMS OR SERVICES					7. DATE(S) REQUIRED 02/09/2012	
					8. GOVERNMENT FURNISHED PROPERTY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (If "yes," see par. 8 of instructions on next page.)	
ITEM NO. (A)	ITEM OR SERVICE (Include Specifications and Special Instructions) (B)	QUANTITY (C)	UNIT (D)	ESTIMATED COST		
				UNIT (E)	AMOUNT (F)	
	Need Date: 02/09/2012 Brand Name: N Rec Proc Method: EXISTING CONTRACT LIST OF CHANGES: Total Amount for this Amendment: <b>Ex. 4 - CBI</b> Committed Amount for this Amendment: <b>Ex. 4 - CBI</b> Total Estimated Value (IGCE)* changed to : <b>Ex. 4 - CBI</b>  NEW DELIVERY LOCATION RECORD: Quantity: 0 Amount: <b>Ex. 4 - CBI</b> Delivery date: 02/09/2012 Shipping Address: Region 3 US Environmental Protection Agency 1650 Arch Street Philadelphia PA 19103-2029  Mark For Address:  NEW ACCOUNTING CODE ADDED: ✓ Account code: 12-T-3ASOE-303DC6-2505-A3TARV00-C001 Continued ...					
				TOTAL ESTIMATED COST <b>Ex. 4 - CBI</b>		
10. ACCOUNTING DATA Accounting Info : 12-T-3ASOE-303DC6-2505-C001-123ASA1013-001						

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A. Check "New Request" if this is an initial request.  
B. If this is a change to a pending PR, check and enter PR number assigned by procurement office.  
C. If PR is for modifying an existing order or contract, check box, and enter order or contract number assigned by procurement office.
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- ITEM 4** - **ADDITIONAL INFORMATION.** Use this space to indicate suggested sources of supply, any applicable security classification, or for other instructions or data.  
  
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(2) - (4) For use as may be required by local instructions.  
  
COL.B\_ROUTING SYMBOL. Self-explanatory  
COL.C\_DATE. Give date of approval.  
COL.D AND COL.E\_INTERNAL ROUTING. Use these blocks only if internal review and intermediate approvals are required by approving officials.
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If a brand name or equal product, state the commercial brand name and model, and set forth those characteristics essential to Government needs.  
  
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Furnish any other instructions, such as inspection and testing requirements  
  
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If the requested item or service has been previously procured, and no other more current pricing data is available, use last known purchase price.  
  
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ITEM NO. (A)	ITEM OR SERVICE (Include Specifications and Special Instructions) (B)	QUANTITY (C)	UNIT (D)	ESTIMATED COST	
				UNIT PRICE (E)	AMOUNT (F)
	Beginning Fiscal Year 12 Ending Fiscal Year Fund (Appropriation) T Budget Organization 3AS0E Quantity: 0 Amount: \$15,000.00 Percent: 100 Subject To Funding: N Payment Address: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (D143-02) 109 TW Alexander Drive Durham NC 27711  Site Name: Dimock Residential Groundwater Site id #: A3TA Location: Dimock, PA  Task Order No. 0703-03-035 Contract No. - EP-S3-07-03  Continue Removal Activities. BFY: 12 Fund: T Budget Org: 3AS0E Program (PRC): 303DC6 Budget (BOC): 2505 Job #: A3TARV00 Cost: C001 DCN - Line ID: 123ASA1013-001 FOB: Destination				